ozonia®
IGS+
Intelligent Gap System Plus (IGS+)

ozonia’s innovative and cost effective dielectric technology
for next generation ozone systems

ready for the resource revolution
The ozonia® IGS+ electrode system is Suez’ latest creation, building upon ozonia®’s long heritage of innovative ozone generation concepts.

The use of ceramic materials for Advanced Technology (AT™) offers huge improvements over glass electrode technology: optimized discharge characteristics, enhanced manufacturing accuracy, and greater discharge uniformity. Intelligent Gap System (IGS) technology further exploits the benefits of AT™ by tailoring discharges through the entire ozone generation process.

The groundbreaking ozonia® IGS+ dielectric system is based on a completely new dielectric concept with enhanced geometry, tighter tolerances, and fine-tuned manufacturing techniques. ozonia® IGS+ further optimizes electric discharges from inlet to outlet, resulting in a more robust and efficient ozone generation process.

With ozonia® IGS+, it is now possible to increase ozone concentration and production capacity, without increasing power consumption. Ozone systems equipped with this technology can easily provide stable ozone concentrations of up to 16 wt%, setting new standards for commercial ozone production worldwide.

Ozonia®’s new state-of-the-art IGS+ technology reduces the energy used to generate ozone by up to 25% while increasing the maximum production capacity up to 20%. Like previous ozonia® electrode innovations, ozonia® IGS+ technology is fully compatible with previous ozonia® products, offering our customers the opportunity to retrofit their existing equipment with this revolutionary new technology.

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**technology highlights**

- ozone concentrations up to 16 wt%: continuously and reliably
- the lowest power consumption on the market: up to 25% energy savings
- increased ozone gas pressure up to 3.0 bar
- industry leading robustness and reliability
ozonia® IGS+
greener than ever

ozonia’s IGS+ technology assures cost savings in energy and feed gas consumption establishing ozonation as an efficient and environmentally friendly solution for the replacement of chlorine and other chemicals.

trust a proven leader

Over 1,000 kilograms of ozone are produced every hour around the world using ozonia® IGS technology. In addition to its commercial success, ozonia® IGS technology has been honored with several international awards:

- In 2007, a SUEZ Initiative Innovation award and intellectual property rights were granted for the innovative ozonia® IGS technology.
- In 2010, the ozonia® IGS technology won the European IWA Project Innovation Awards, an award recognizing excellence and innovation in water engineering projects throughout the world.
- In 2017, the next generation ozonia® IGS+ system was honored with the SUEZ Innovation Trophy for Industrial Technology.

high concentration ozone reduces:
- LOX storage and utilities
- ozone contacting
- ozone destruction
- equipment heating
- equipment redundancy and other infrastructure
- requirements
- footprint
- operation and maintenance demands
- utility consumption

the economy of ozonia® IGS+ technology makes ozone an effective solution to address the technical and economical challenges of water treatment

increased maximum capacity
- up to 20% increased production capacity

reduced energy consumption
- up to 25% less energy consumption

higher pressure
- wider range of pressure available up to 3.0 bar
- improved performance and reduced costs for ancillary systems

higher concentration
- improved performance at higher concentrations
- ozone concentration up 16 wt%
SUEZ’s ozonia® ozone technology portfolio includes products from the laboratory scale to the largest ozone systems ever built. Suez uses our extensive ozone technology experience to provide the industry’s most reliable and robust products.

Our unique ability to deliver the most reliable and robust systems is why thousands of customers around the world have chosen ozonia® ozone systems.

We have been the ozone industry pioneer for over 25 years. Trust SUEZ to deliver the highest quality ozone solutions to meet your treatment challenges.